



SCIENCE AND TECHNOLOGY COUNCIL

**TAKNEEK '18**

ON THE SHOULDERS OF GIANTS



## GAME OF DRONES

Pool Event

Points : 30

It's time for science to be fun. The event will check your flying skills on the Quadcopters. Complete the different task with the buzzing vehicle and become the ultimate winner.

### Event Structure

#### Round 1 (Qualifying Round)

#### Task:

Hover the Quadcopter for 20 seconds inside a 70cmx70cm square marked on ground while maintaining a constant height

#### Problem Statement:

- Two attempts will be provided to each pool.
  - Complete the task without crash.
  - Pools completing the task will qualify for second round.
- \*\*Flyers should be strictly from Y17 batch.

#### Rules:

- Teams have to maintain the quadcopter inside the specified area and maintain the height
- Teams who crash the quadcopter will be disqualified

#### Round 2:

#### Task:

Show your control skills by landing the quadcopter in the desired circular zone. The diameter of the circle will decrease consecutively.

**Akash Jain**

**General Secretary, Science and Technology  
Students' Gymkhana, IIT Kanpur  
204, NewSAC, IIT Kanpur, Kanpur (UP) - 208016  
sntsecy@iitk.ac.in | jaiakash@iitk.ac.in  
+91-9450533385**



SCIENCE AND TECHNOLOGY COUNCIL

**TAKNEEK '18**

ON THE SHOULDERS OF GIANTS



#### Rules:

- Qualifying teams of Round 1 can participate in Round 2.
- Teams have to take off from the start zone and have to move ahead by landing and taking off from each circular zone.
- Radius of circular zone will decrease consecutively.
- Landing outside the circular zone or crash will lead to end of the attempt.

#### Judging

- Team covering maximum number of successful circles will be the final winner.
- In case there is any tie between two teams, the team with minimum time will be the winner.

#### Note:

- \*\*Improper land, damaging the quadcopter, even if it is a prop-break will be considered as a crash.
- \*\*Flyer must check all the electronics before flying. In case of any technical problem refer to the coordinators. Flyers holds the sole responsibility of any failure during the flight and it won't be consider for a second attempt.
- \*\*Only one team from each pool can participate. Each team can have a minimum of 1 and maximum of 4 flyers. The flyers can be changed in any round but not in any single attempt.
- \*\*Team must report on scheduled time. If any team will fail this condition then points will be deducted as following scheme from their total score
  - For first 10 minutes  
1 points penalty per minute
  - For 10 to 15 minutes  
2 points penalty per minutes
  - After 15 minutes team will be disqualified.

**Akash Jain**

**General Secretary, Science and Technology  
Students' Gymkhana, IIT Kanpur  
204, NewSAC, IIT Kanpur, Kanpur (UP) - 208016  
sntsecy@iitk.ac.in | jaiakash@iitk.ac.in  
+91-9450533385**





SCIENCE AND TECHNOLOGY COUNCIL  
**TAKNEEK '18**  
ON THE SHOULDERS OF GIANTS



- \*\*If judges or coordinators find any person not capable of flying the quadcopter will not be allowed to fly under any circumstances.
- \*\* If at any point of time coordinators feel that the quadcopter is going out of control or out of the field then the transmitter will be immediately taken from the flyer and clock will be stopped.
- \*\* In case of any disputes, the decision of the coordinators would be final and binding to all.

In case of any problem, feel free to contact.

Neeraj Dhandia +918005945455  
Darshan Zala +917318019192  
Padma Tashi +918528024599

**Akash Jain**

**General Secretary, Science and Technology  
Students' Gymkhana, IIT Kanpur  
204, NewSAC, IIT Kanpur, Kanpur (UP) - 208016  
sntsecy@iitk.ac.in | jaiakash@iitk.ac.in  
+91-9450533385**